

# STEVAL-ISA081V1

# 12 V /1 A SMPS wide range demonstration board based on the VIPER26

Data brief

## **Features**

■ Vin: 85 ~ 305 Vrms / f: 45 ~ 66 Hz

V<sub>out1</sub>: 12 VDC ± 10 %, 1 A (at 3.3 V not loaded)

■ V<sub>out2</sub>: 3.3 VDC ± 4 %, 100 mA

■ Maximum total output current: 1 A

■ Standby < 120 mW at 230 VAC

■ Short-circuit: protected

■ PCB type and size: FR4, single-side 35 µm, 32

■ Isolation: isolated 4 kV / 8 mm

■ EMI: according to EN55022 Class

■ RoHS compliant

## **Description**

The STEVAL-ISA081V1 demonstration board is a switched mode power supply (SMPS) demonstration board and it is an isolated SMPS capable of delivering a 12 W output over a wide input voltage range.

It is designed for a mains application focusing on cost and size effective solutions.

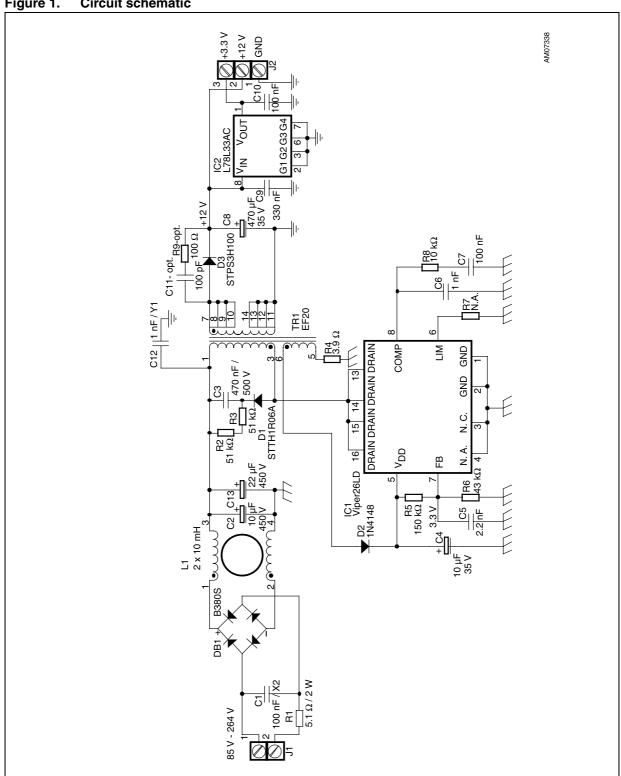
The STEVAL-ISA081V1 SMPS generates 12 V nominal output voltage using primary regulation and it is based on the VIPER26 monolithic converter, integrating a high voltage MOSFET and PWM controller in one package.



Schematic diagram STEVAL-ISA081V1

### Schematic diagram 1

Figure 1. **Circuit schematic** 



STEVAL-ISA081V1 Revision history

# 2 Revision history

Table 1. Document revision history

Date	Revision	Changes
05-Nov-2010	1	Initial release.

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